

Amendments to the Claims

Please amend claims 1, 10, 12-14, 23, 25, 26, 28, and 30. Please cancel claims 27, 34, and 37. Please add new claims 38-50. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently amended) A mounting apparatus for a matrix display panel having a single ~~smooth~~ alignment edge, the display panel including an imaging area comprising:
 - a housing having a display opening; and
 - a display alignment device coupled to the housing, the display alignment device capable of aligning the imaging area of ~~the~~ a matrix display panel with the display opening of the housing based on the single ~~smooth~~ alignment edge.
2. (Original) The mounting apparatus of claim 1 wherein the display alignment device aligns the imaging area within a tolerance of 2° with respect to alignment with the display opening.
3. (Original) The mounting apparatus of claim 1 comprising a light source attached to the housing for illuminating the imaging area.
4. (Original) The mounting apparatus of claim 3 wherein the light source comprises a light emitting diode (LED).
5. (Previously amended) The mounting apparatus of claim 4 wherein the LED emits a blue light, which is transmitted through a phosphor coating to generate a white light.
6. (Original) The mounting apparatus of claim 3 wherein the light source comprises a light pipe.

7. (Original) The mounting apparatus of claim 3 wherein the light source comprises a first diffuser and a second diffuser.
8. (Original) The mounting apparatus of claim 1 further comprising a lens mounted to the housing, the lens positioned adjacent to the display opening.
9. (Original) The mounting apparatus of claim 8 wherein the lens comprises a torro lens.
10. (Currently amended) The mounting apparatus of claim 1 further comprising a lateral securing portion, the lateral securing portion laterally compressing the ~~smooth~~ alignment edge of the matrix display panel against the display alignment device to align the imaging area with the display opening.
11. (Original) The mounting apparatus of claim 10 wherein the lateral securing portion comprises a spring and ramp combination.
12. (Currently Amended) The mounting apparatus of claim 1 further comprising a vertical securing portion, the vertical securing portion vertically compressing the matrix display panel within the housing.
13. (Currently amended) The mounting apparatus of claim 1 wherein the display alignment device comprises a registration edge within the housing of the assembly, the registration edge in communication with the ~~smooth~~-alignment edge of the matrix display panel such that the interface between the ~~smooth~~-alignment edge and the registration edge aligns the imaging area with the display opening.
14. (Currently amended) A display assembly comprising:
a housing having a display opening;

a matrix display panel mounted within the housing, the display panel having an imaging area positioned in optical alignment with the display opening and a single ~~smooth~~ alignment edge; and

a display alignment device coupled to the housing, the display alignment device ~~capable of aligning the imaging area with the display opening based on the single smooth~~ alignment edge.

15. (Original) The display assembly of claim 14 wherein the display alignment device aligns the imaging area within a tolerance of 2° with respect to the alignment of the display opening.
16. (Original) The display assembly of claim 14 comprising a light source coupled to the housing for illuminating the imaging area.
17. (Original) The display assembly of claim 16 wherein the light source comprises a light emitting diode (LED).
18. (Previously amended) The display assembly of claim 16 wherein the LED emits a blue light, which is transmitted through a phosphor coating to produce a white light.
19. (Original) The display assembly of claim 16 wherein the light source comprises a light pipe.
20. (Original) The display assembly of claim 16 wherein the light source comprises a first diffuser and a second diffuser mounted to the housing.
21. (Original) The display assembly of claim 14 further comprising a lens mounted to the housing, adjacent to the display opening.
22. (Original) The mounting apparatus of claim 21 wherein the lens comprises a torro lens.

23. (Currently amended) The mounting apparatus of claim 14 further comprising a lateral securing portion, the lateral securing portion laterally compressing the ~~smooth~~-alignment edge of the matrix display panel against the display alignment device to align the imaging area with the display opening.
24. (Original) The mounting apparatus of claim 23 wherein the lateral securing portion comprises a spring and ramp combination.
25. (Currently amended) The mounting apparatus of claim 14 further comprising a vertical securing portion, the vertical securing portion vertically compressing the matrix display panel within the housing.
26. (Currently amended) The display assembly of claim 14 wherein the display alignment device comprises a registration edge within the housing of the assembly, the registration edge in communication with the ~~smooth~~-alignment edge of the matrix display panel such that the interface between the ~~smooth~~-alignment edge and the registration edge aligns the imaging area with the display opening.
27. (Canceled)
28. (Currently amended) The display assembly of claim 14 further comprising an optically transparent spacer coupled to the matrix display panel, the spacer providing alignment of the imaging area with respect to an optic element.
29. (Original) The display assembly of claim 28 wherein the optically transparent spacer is coupled to a viewer side surface of the display panel.
30. (Currently amended) The display assembly of claim 28 wherein the optically transparent spacer is coupled to a backlight side surface of the matrix display panel.

31. (Original) The display assembly of claim 28 wherein the optically transparent spacer comprises a polarizer.
32. (Canceled)
33. (Canceled)
34. (Canceled)
35. (Previously presented) The mounting apparatus of claim 1 wherein the display panel is optically aligned with a polarizer.
36. (Previously presented) The display assembly of claim 14 wherein the display panel imaging area is optically aligned with a polarizer.
37. (Canceled)
38. (New) A method for mounting a matrix display panel having a single alignment edge, and an imaging area to a housing having a display opening comprising:
 - coupling a display alignment device to the housing;
 - using the display alignment device capable, aligning the imaging area of the matrix display panel with the display opening of the housing based on the single alignment edge.
39. (New) The method of claim 38 wherein the display alignment device aligns the imaging area within a tolerance of 2° with respect to alignment with the display opening.
40. (New) The method of claim 38 further comprising attaching a light source to the housing for illuminating the imaging area.

41. (New) The method of claim 40 wherein the light source comprises a light emitting diode (LED).
42. (New) The method of claim 41 wherein the LED emits a blue light, which is transmitted through a phosphor coating to generate a white light.
43. (New) The method of claim 40 wherein the light source comprises a light pipe.
44. (New) The method of claim 40 wherein the light source comprises a first diffuser and a second diffuser.
45. (New) The method of claim 38 further comprising mounting a lens to the housing and adjacent to the display opening.
46. (New) The method of claim 45 wherein the lens comprises a torro lens.
47. (New) The method of claim 38 further comprising laterally compressing the alignment edge of the matrix display panel against the display alignment device to align the imaging area with the display opening.
48. (New) The method of claim 38 further comprising vertically compressing the matrix display panel within the housing.
49. (New) The method of claim 38 wherein the display alignment device comprises a registration edge within the housing of the assembly, the registration edge in communication with the alignment edge of the matrix display panel such that the interface between the alignment edge and the registration edge aligns the imaging area with the display opening.

50. (New) The method of claim 38 wherein the matrix display panel is optically aligned with a polarizer.